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ABSTRACT

This book uses a biographical pattern to trace the history of physics teaching. Whenever possible the story of an influential person or institution is used to tell the story of that period. The book begins with the contributions of the Greeks, the Romans, and the Arabs to physics and its teaching. Chapters include: (1) "The First Beginnings of Physics Teaching: From Early Times to 1600"; (2) "The 17th and 18th Centuries: Sir Isaac Newton"; (3) "Teaching in the Dissenting and Private Academies: Joseph Priestley"; (4) "Physics for the Masses--The Mechanics' Institutions: George Brikbeck"; (5) "The Royal Institution: Michael Faraday"; (6) "Physics in Elementary Education in the First Half of the 19th Century"; (7) "Physics in Secondary Education in the First Half of the 19th Century"; (8) "Physics in Elementary Education in the Second Half of the 19th Century: T. H. Huxley"; (9) "Physics in the Public Schools During the Second Half of the 19th Century"; (10) "The 'Lesser' Public Schools"; (11) "Physics in the Grammar Schools in the Second Half of the 19th Century"; (12) "External Examinations: The University of London Matriculation and BA/BSc Examinations, Oxford and Cambridge Local Examinations"; (13) "The Heuristic (Discovery) Method of Science Teaching: H. E. Armstrong"; (14) "Physics Teaching in the Universities During the 19th Century"; (15) "The Cavendish Laboratory: James Clerk Maxwell"; and (16) "Physics in 20th Century Schooling." (JRH)

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